

From glowbugs@theporch.com Tue May 7 22:30:20 1996  
Return-Path: glowbugs@theporch.com  
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com  
(8.7.5/AUX-3.1.1) with SMTP id WAA07316; Tue, 7 May 1996 22:27:04 -0500 (CDT)  
Date: Tue, 7 May 1996 22:27:04 -0500 (CDT)  
Message-Id: <199605080327.WAA07316@uro.theporch.com>  
Errors-To: ws4s@midtenn.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 181  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 181

Topics covered in this issue include:

- 1) Re: Compactron regen circuit  
by Jim Stafford-W4Q0 <w4qo@america.net>
- 2) Re: Compactron regen circuit  
by "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>
- 3) Re: Could there be a 1-tube superhet?  
by mjsilva@ix.netcom.com (michael silva)
- 4) Equivalent tubes  
by Jeff Duntemann <jeffd@coriolis.com>
- 5) Thoughts on using 3 prong NON-standard plugs in BA's  
by rdkeys@csemail.cropsci.ncsu.edu

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Date: Mon, 6 May 1996 23:26:17 -0400 (EDT)  
From: Jim Stafford-W4Q0 <w4qo@america.net>  
To: Jeff Duntemann <jeffd@coriolis.com>  
Subject: Re: Compactron regen circuit  
Message-ID: <Pine.SOL.3.91.960506232426.880A-100000@atl1>

On Mon, 6 May 1996, Jeff Duntemann wrote:

>  
> The tube is a 6AF11 dual triode and power pentode. The first triode is a  
> very conventional regen detector, coupled to the first audio triode through  
> a 1:3 interstage transformer. (AES still carries this...for \$10! Yike!) A  
> complicated phone jack connects a high-Z headset to the final amp (not the

Antique Radio Supply has it for \$4.60. Actually pretty good. Based on CPI, this would be like \$1.10 in 1965. I suspect it was more then. Keep this kind of stuff coming! I love it.

73/72/jim/w4qo

-----  
Date: Mon, 6 May 1996 22:11:11 -0600  
From: "Deane D McIntyre" <dmcintyr@acs.ucalgary.ca>  
To: glowbugs@theporch.com  
Subject: Re: Compactron regen circuit  
Message-ID: <9605070411.ZZ35040@ds1.acs.ucalgary.ca>

In message <Pine.SOL.3.91.960506232426.880A-100000@atl1> writes:

>  
> On Mon, 6 May 1996, Jeff Duntemann wrote:  
>  
> >  
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> > very conventional regen detector, coupled to the first audio triode through  
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> Antique Radio Supply has it for \$4.60. Actually pretty good. Based on  
> CPI, this would be like \$1.10 in 1965. I suspect it was more then. Keep  
> this kind of stuff coming! I love it.

Even better, AES has the 6AS11 on sale for \$1.00. Same tube as the 6AF11 with slightly higher ratings.

They also have the 6AC7 for \$1.00 and the 6159 (6146 with a 26.5 volt filament, otherwise identical) also for \$1.00. Build a glowbug transceiver for \$3.00 in tubes. If this is too expensive, you can buy the 6AC7 (JAN, not Russian) for \$0.50 each from Sovtek. \$100 minimum order however they have many other cheap tubes of interest to glowbuggers(?). If only 1L6's were so cheap.....anyone know a good source?

73, Deane D McIntyre VE6BP0  
dmcintyr@acs.ucalgary.ca

(not connected with AES or Sovtek except as a customer)

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Date: Mon, 6 May 1996 21:55:01 -0700  
From: mjsilva@ix.netcom.com (michael silva)  
To: glowbugs@theporch.com  
Subject: Re: Could there be a 1-tube superhet?  
Message-ID: <199605070455.VAA01585@dfw-ix3.ix.netcom.com>

NA4G/Bob wrote:

>  
>> Are direct conversion receivers a form of superhet.  
>  
>Not really. The design goes back to about 1907 when Poulsen's arc was  
>used as a source of radio frequent emissions to beat against standard  
>carborundum or galena receivers.  
>  
>The proper name is ``external heterodyne'' receivers, often shortened  
>to ``heterodyne'' or just ``beat'' receivers by WWI.

A couple of old books I have also use the term "homodyne" (vs.  
"autodyne" for regenerative detection), but I don't know if it ever  
caught on.

73,  
Mike, KK6GM

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Date: Tue, 7 May 1996 08:36:20 -0700  
From: Jeff Duntemann <jefffd@coriolis.com>  
To: glowbugs@theporch.com  
Subject: Equivalent tubes  
Message-ID: <199605071536.IAA02185@ns2.indirect.com>

Dean said:

>Even better, AES has the 6AS11 on sale for \$1.00. Same tube as the  
>6AF11 with slightly higher ratings.  
  
>They also have the 6AC7 for \$1.00 and the 6159 (6146 with a 26.5 volt  
>filament, otherwise identical) also for \$1.00. Build a glowbug transceiver  
>for \$3.00 in tubes.

Years ago I started a note sheet of such "equivalent" tubes when I  
discovered that the 6417 was identical to the commonly called-out 5763  
except for the filament voltage. The 6417 is also predictable a lot cheaper  
from AES. (One's 6V, t'other 12V, forget which is which.) There is a 12V and

a 26.5V 6146, also a Compactron 6146 without a plate cap. The 3Q4 is the same as the 3V4 except for the pinout, and it's a lot cheaper. I think a 5881 is a beefier 6L6 that shows up a lot in guitar amps.

Hokay. Let's do this. I'll go find my list tonight, but I can see it's already obsolete. (I didn't know about the 6AS11.) You guys post any such equivalents you're aware of, and I'll assemble them into a text file, which I will post periodically to the list.

The file will have a format like this:

COMMON TUBE	EQUIVALENT	DIFFERENCES
3V4	3Q4	Electrically identical, only pinout differs
6146	6159	Has 26.5V filament, otherwise identical
6AF11	6AS11	Identical but for higher ratings

One suggestion: If possible, be a little more specific about things like "higher ratings." Try to peg it to numbers, as in "Has 5W plate dissipation rather than 3W" or whatever.

Maybe they'll be interested in publishing the list in ELECTRIC RADIO once it's grown some. I know my list has about ten-twelve different citations. I'm sure we could double that.

What say?

--73--

--Jeff Duntemann KG7JF  
Scottsdale, Arizona

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Date: Tue, 7 May 1996 14:01:25 -0400 (EDT)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: boatanchors@theporch.com, glowbugs@theporch.com  
Cc: rdkeys@csemail.cropsci.ncsu.edu ()  
Subject: Thoughts on using 3 prong NON-standard plugs in BA's  
Message-ID: <9605071801.AA101801@csemail.cropsci.ncsu.edu>

Whilst thinking about the setup on our FD jaunt this year using (you guessed it) RAL's etc., on the receiving table, I wonder what folks have as to thoughts on quick disconnect plugs for receiver voltages (filament and B+ up to 250vdc. I have used some of the odd 220v AC connectors, you know the ones with the odd plugs with pins at strange angles that don't plug into standard 110vac household receptacles, but they tend to be very

expensive. I could use Jones connectors, but don't seem to be able to find a good supply of standardized receptacle/plug combos. The ones at rat shack scare me. Standard 4 pin tubesocket plugs and shells are very hard to come by these days, at least around here. Octals might be a possible sub, but they are also scarce except for odd ones. Din plugs are one possibility, but the pins are rather tiny for heavy filament currents. Microphone plugs and extension cords might be one possibility, but they are usually not well insulated, although the pins are heavier than on din plugs. So, what have you folks been using for quick connect plugs in receiver lines (usual 3 or 4 wire 250 volt rating cordage)? Comments appreciated. Remember, safety first, here.

73/ZUT DE NA4G/Bob

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End of GLOWBUGS Digest 181

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